

U. S. SILICA COMPANY

Material Safety Data Sheet

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Product Name: FLORISIL®

Product Description: Silicic Acid, Magnesium Salt

1. Identification of the Substance and of the Company

1.1. Identification of the Substance or Preparation

Product Name / Trade Names: FLORISIL®, Grades A, B, PR
(FLORISIL® is a registered trademark of U. S. Silica Company)

Chemical Name or Synonym:

Silicic Acid, Magnesium Salt

1.2. Use of the substance/preparation

Main Applications (non-exhaustive list): chromatography; decolorization of oils, fats, and waxes; catalytic agent, thin layer chromatography.

1.3. Company / Producer

PRODUCER
U.S. SILICA COMPANY
P.O. Box 187
106 Sand Mine Road
Berkeley Springs, WV 25411
U.S.A.
Phone: 304-258-2500
Emergency Phone: 304-258-2500
FAX: 304-258-8295

2. Hazards Identification

Hazardous Components: None

OSHA PEL None established. Treat as a nuisance dust.
29 CFR §1910.1000 Table Z-1-A Air Contamination lists;
Particulates not otherwise regulated; PEL = 15 mg/m³ Total Dust
5 mg/m³ Respirable Fraction

ACGIH TLV: None Established; Follow OSHA nuisance dust PELs.

Other Limits Recommended: None

3. Composition / Information on Ingredients

Component / CAS #	%
Silicic Acid, Magnesium Salt 1343-88-0	99 – 100%

4. First Aid Measures

- 4.1. Eye Exposure:**
Wash immediately with plenty of water. If irritation persists, seek medical attention.
- 4.2. Skin Exposure:**
Not Applicable
- 4.3. Inhalation:**
Not Applicable
- 4.4. Ingestion:**
Not Applicable

5. Fire Fighting Measures

5.1. Fire Hazard Data:

Autoignition:
Not Applicable

Flash Point:
Not Applicable

Flammability Limits (vol / vol%):	Lower: Not Applicable	Upper: Not Applicable
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Extinguishing Media:
Product is not flammable, combustible or explosive. Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures:
None

Unusual Fire and Explosion Hazards:
None

6. Accidental Release Measures

6.1. Personal precautions:

Environmental precautions: No specific precautions. Discard any product, residue, disposable container or liner in compliance with regulatory requirements.

Methods for cleaning up: Use broom or water.

7. Handling and Storage

7.1. Handling

Material is not hazardous; clean up using broom or water. Any method within applicable regulations.

7.2. Storage

No Specific Measures

7.3. Specific uses

Apply safe handling recommendations from Sections 6 and 7.1.

8. Exposure Controls / Personal Protection

8.1. Exposure limit values

Not Applicable

8.2. Exposure controls

8.2.1. Occupational exposure controls

Engineering Controls:

No specific measures

Respiratory Protection

None required unless exposures to total or respirable dusts exceed national OELs for dust. Use respirator if necessary. Use sufficient local exhaust to reduce the levels of total or respirable dust.

Eye / Face Protection:

Optional. If eye contact while using product may be anticipated, wear appropriate safety glasses with side shields or chemical goggles as described by European Standard EN166.

Skin Protection:

Optional. Wear chemical resistant gloves (such as latex or neoprene) and protective clothing to minimize skin contact.

8.2.2. Environmental Exposure Controls

No special requirements.

9. Physical and Chemical Properties

9.1. General Information

Physical State: White grain or powder

Odor: None

9.2. Important health, safety and environmental information

pH:	Not Determined
Specific Gravity:	2.51
Melting Point:	Not Determined
Freezing Point	Not Applicable
Boiling Point:	Not Determined
Flashpoint:	Non-flammable
Flammability:	Not Applicable
Explosive properties:	Not Applicable
Oxidizing properties:	Not Applicable
Vapor Pressure:	Not Applicable
Relative Density:	Not Applicable
Solubility:	FLORISIL® will dissolve in hydrofluoric acid (HF) and produce the corrosive gas Silicon Tetrafluoride (SiF ₄)
Water Solubility:	Insoluble
Percent Volatiles by Volume:	Not Applicable
Viscosity:	Not Determined
Vapour density:	Not Applicable
Molecular Weight:	Not Determined
Evaporation rate:	Not Applicable

10. Stability and Reactivity

- 10.1. Chemical Stability:**
Stable
- 10.2. Conditions to Avoid:**
FLORISIL® will dissolve in hydrofluoric acid (HF) and produce the corrosive gas Silicon Tetrafluoride (SiF₄)
- 10.3. Materials / Chemicals to Be Avoided:**
Contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride and oxygen difluoride, may cause fires.
- 10.4. Hazardous Decomposition Products:**
Florisil® will dissolve in hydrofluoric acid (HF) and produce the corrosive gas Silicon Tetrafluoride (SiF₄)
- 10.5. Hazardous Polymerization:**
Will not occur.

11. Toxicological Information

Not Applicable

12. Ecological Information

- 12.1. Ecotoxicological Information:**

Not Applicable

13. Disposal Considerations

13.1. Waste Disposal Method:

Discard any product, residue, disposable container or liner in full compliance with national regulations.

13.2. Container Handling and Disposal:

Dispose of container and unused contents in accordance with national regulations.

14. Transportation Information

Shipping Name: FLORISIL

Silicic Acid, Magnesium Salt is not a hazardous material for purposes of transportation under the U.S. Department Transportation Table of Hazardous Materials, 49 CFR §172.101.

ADR/RID/IMO/ICAO /US DOT	Proper Shipping Name	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulated

15. Regulatory Information

Not Applicable

16. Other Information

Nothing to report

SEPTEMBER 2009